

LexA repressor Protein, E. coli, Recombinant (His & SUMO)

General Information

Synonyms:	exrA;lexA;LexA repressor;spr;umuA;tsl
Protein Construction:	1-202 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P0A7C2
Molecular Weight:	38.4 kDa (predicted)
AA Sequence:	MKALTARQQEVFDLIRDHISQTGMPPTRAEIAQRLGFRSPNAAEEHLKALARKGVIEIVSGASRGIRLLQEEEE GLPLVGRVAAGEPLLAQQHIEGHYQVDPSTLFPNADFLLRVSGMSMKDIGIMDGDLLAVHKTQDVRNGQVV VARIDDEVTVKRLKKQGNKVPELLPENSEFKPIVVDLRQQSFTIEGLAVGVIRNGDWL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Represses a number of genes involved in the response to DNA damage (SOS response), including recA and lexA. Binds to the 16 bp palindromic sequence 5'-CTGTATATATACAG-3'. In the presence of single-stranded DNA, RecA interacts with LexA causing an autocatalytic cleavage which disrupts the DNA-binding part of LexA, leading to derepression of the SOS regulon and eventually DNA repair. Implicated in hydroxy radical-mediated cell death induced by hydroxyurea treatment. The SOS response controls an apoptotic-like death (ALD) induced (in the

absence of the mazE-mazF toxin-antitoxin module) in response to DNA damaging agents that is mediated by RecA and LexA.

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